

# Graffitex - Part A



## SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY

Product Name: **GRAFFITEX - PART A**  
 Company Name: Polycote UK  
 Centre Point • Wolseley Road  
 Woburn Road Industrial Estate  
 Kempston • Beds MK42 7EF  
 Telephone Number: 01234 846400

## SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

The product is not considered to be harmful to your health but contains:

Hazardous Components:

| Chemical Name                               | CAS No./EINECS No.                    | Classification         | Conc. |
|---|---------------------------------------|------------------------|-------|
| N-Butyl alcohol                             | 71-36-3/200-751-6                     | XN. R10-22-37/38-41-67 | <5%   |
| Derivative from Hydroxyphenyl benzotriazole | 104810-48-2<br>104810-47-1/25322-68-3 | XN N. R48/22-43-51/53  | <1%   |

## SECTION 3: HAZARDS IDENTIFICATION

Inhalation: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.  
 Skin contact: May cause sensitisation by skin contact.  
 Eye contact: May cause eye irritation.  
 Ingestion: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

## SECTION 4: FIRST AID MEASURES

Inhalation: Remove to fresh air, keep the patient warm and at rest. Do not eat or drink. In case of respiratory arrest, administer artificial respiration. Seek medical attention immediately.  
 Skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary cleaner. Do NOT use solvents or thinners.  
 Eye contact: Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.  
 Ingestion: If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.  
 General Information: Never given anything by mouth to an unconscious person. In cases of doubt, or when symptoms persist, seek medical attention.

## SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide, powder, alcohol resistant foam.  
 Unsuitable extinguishing media: Do not use a heavy water stream.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

After spillage and/or leakage: Remove ignition sources. Clean up any spills as soon as possible, using an absorbent material to collect it, such as: sand, earth, vermiculite etc. Wear recommended personal protective equipment (See section 8). Clean preferably with detergent; avoid use of solvents. Notify authorities if product enters sewers or public waters.

## SECTION 7: HANDLING AND STORAGE

General: No naked lights. No smoking.  
 Storage: Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from oxidising agents, from strongly alkaline and strongly acid materials. Observe label precautions. Keep only in the original container in a cool, well ventilated place away from heat sources and direct sunlight. No smoking. Store in accordance with current regulations.  
 Handling: Both local exhaust and good general room ventilation must be provided not only to control exposure but also to prevent formation of flammable mixtures. Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep away from food, drink and animal feeding stuffs. (See Section 8). Do not use compressed air to either agitate or transfer the contents of storage containers (tanks) / shipping drums containing this material. Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Handle in accordance with good industrial hygiene and safety procedures.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protection  
 Respiratory protection: Only approved supplied air or self-contained breathing apparatus operated in positive pressure mode are satisfactory, if exposure can exceed the exposure limit value.  
 Skin protection: Wear suitable protective clothing, (gloves) to prevent prolonged skin contact.  
 Eye protection: Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product.  
 Industrial hygiene: Either local exhaust or general room ventilation is usually required.

## SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Physical state: Liquid  
 Colour: Colourless  
 Density: 1.04 (2-components)  
 Solubility in water: Complete  
 Flashpoint: 68°C (Setaflash Closed tester)

## SECTION 10: STABILITY AND REACTIVITY

Stability: This product is stable under normal storage conditions (See section 7).  
 Hazardous Decomposition Products: None under normal conditions. On exposure to high temperature, may decompose, releasing toxic/flammable vapours such as carbon monoxide, carbon dioxide, smoke and nitrogen oxides.  
 Materials to avoid: Oxidiser. Strong alkalis. Strong acids.

**Polycote Graffitex - Part A Cont.**

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**SECTION 11: TOXICOLOGICAL INFORMATION**

On product: No data available.  
 MAC n-butyl alcohol: 150ml/m<sup>3</sup>  
 TLV-TWA n-butyl alcohol: 152 mg/m<sup>3</sup>

General: See section 3.

**SECTION 12: ECOLOGICAL INFORMATION**

Ecological effects information: No data available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Disposal: Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.

**SECTION 14: TRANSPORT INFORMATION**

Shipping name: Paint.  
 UN No: None.  
 ADR/RID: Free.

**SECTION 15: REGULATORY INFORMATION**

Symbols: None.  
 R Phrases: None.  
 S Phrases: S02 - Keep out of the reach of children.  
 S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S45 - In case of accident or if you feel unwell, seek medical advice immediately, show the label when possible.  
 S46 - If swallowed seek medical advice immediately and show this container or label.

**SECTION 16: OTHER INFORMATION**

The Safety Data above is applicable to the product only as used according to the purposes and methods described on the relevant Technical Data Sheet, available from Polycote UK on request.

The information above is based on our present knowledge and is believed to be correct but does not purport to be all inclusive and should only be used as a guide. No warranty is implied with respect to the specification of the product. It is intended to describe the product solely in terms of its safety requirements and relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process. This data does not constitute the users own assessment of workplace risk as required by other Health and Safety legislation, nor is it a sales specification or indication of suitability for any particular use. The user must satisfy himself as to the suitability of the product for his purpose. No legally valid contractual relationship is established by the above data, and Polycote UK shall not be held liable for any damage resulting from handling or from contact with the above product.

Date of Issue: September 2005

**Polycote UK**

Centre Point • Wolsley Road • Woburn Road Industrial Estate  
 Kempston • Beds • MK42 7EF  
 Technical Helpline: 01234 846400

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# Graffitex - Part B



## SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY

Product Name: **GRAFFITEX - PART B**  
 Company Name: Polycote UK  
 Centre Point • Wolseley Road  
 Woburn Road Industrial Estate  
 Kempston • Beds MK42 7EF  
 Telephone Number: 01234 846400

## SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

The product is not considered to be irritant and contains:

Hazardous Components:

### Chemical Name

| CAS No./EINECS No.                      | Classification        | Conc.  |
|---|-----------------------|--------|
| Hexemethylene-di-isocyanate 000822-06-0 |                       |        |
| 212-485-8/615-011-00-1                  | T. R23-36/37/38-42/43 | 0.15%  |
| Hydrophilic aliphatic 000822-06-0       |                       |        |
|   | Xi. R43               | 99.85% |

Polyisocyanate 212-485-8  
 615-011-00-1

## SECTION 3: HAZARDS IDENTIFICATION

Skin contact: May cause sensitisation by skin contact.  
 Contains isocyanates - see Section 15.

Over-exposure, especially during spraying operations without the necessary precautions, entails the risk of concentration-dependent irritating effects on eyes, nose, throat and respiratory tract. Delayed appearance of the complaints and development of hyper-sensitivity (difficult breathing, coughing, asthma) are possible. Hypersensitive persons may suffer from these effects even at low control limit (MAC-value). In case of longer contact with skin, tanning and irritating effects are possible.

## SECTION 4: FIRST AID MEASURES

Inhalation: Remove to fresh air, keep the patient warm and at rest. Do not eat or drink. In case of respiratory arrest, Administer artificial respiration. Place the victim in semi-seated position. Seek medical attention immediately.

Skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary cleaner. Do NOT use solvents or thinners.

Eye contact: Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.

Ingestion: If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

General Information: Never given anything by mouth to an unconscious person. In cases of doubt, or when symptoms persist, seek medical attention.

## SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide, powder, alcohol resistant foam. Water fog.

Unsuitable extinguishing media: Do not use a heavy water stream.

Note: Fire will produce dense black smoke. By fire carbon monoxide, nitrogen oxide, isocyanate vapours and traces of hydrogen cyanide can arise. Equip rescue crew with proper protection. Exposure to decomposition products may cause a health hazard.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

After spillage and/or leakage: Remove ignition sources. Ventilate area. Wear recommended personal protective equipment. (See Section 8). Clean up any spills as soon as possible, using an absorbent material to collect it, such as: sand, earth, vermiculite etc. The environment has to be cleaned immediately with an appropriate cleaner. A possible (combustible) cleaner can consist of: water (45 volume parts), ethanol or isopropyl alcohol (50 volume parts), concentrated ammonia solution d.:0.880 (5 volume parts). A non-flammable alternative consists of: sodium carbonate (5 parts) water (95 parts). The above-mentioned mixture also has to be added to the spilled product and during several days, this has to stay in an open barrel until every reaction has stopped. Then, this barrel has to be closed and it has to be handled according to the local rules (see Section 13). Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

## SECTION 7: HANDLING AND STORAGE

General: Persons who suffer from asthma, allergies or chronic disorders of the lungs must not work with this product.

Storage: Store in accordance with current regulations. Observe label precautions. Keep only in the original container in a cool, well ventilated place away from heat sources and direct sunlight. No smoking. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with current regulations.

Storage: Store away from sparks, oxidiser, strong bases, strong acids.

Handling: Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Both local exhaust and good general room ventilation must be provided not only to control exposure but also to prevent formation of flammable mixtures. Proper grounding procedures to avoid static electricity should be followed. Use grounded electrical/mechanical equipment. Use only non-sparking tools. Transfer pumps must be equipped with explosion-proof drives. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. No smoking. Keep away from food, drink and animal feeding stuffs. Do not use compressed air to either agitate or transfer the contents of storage containers (tanks) / shipping drums containing this material. Take precautions to avoid contact with water and moisted air which liberates CO<sub>2</sub> and puts pressure on the closed containers. Re-open the used containers carefully. Handle in accordance with good industrial hygiene and safety procedures (See Section 8).

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protection: Persons who suffer from asthma, allergies or chronic disorders of the lungs must not work with this product.

Respiratory protection: Where exposure through inhalation may occur from use, approved respiratory protection equipment is recommended.

**Polycote Graffitex - Part B Cont.****SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION Cont.**

|                  |  |
|------------------|--|
| Skin protection: | For prolonged or repeated contact, use rubber gloves. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred. |
| Eye protection:  | Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product.   |
| Others:          | Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking and when leaving work. Take off immediately all contaminated clothing.                    |

**SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

|                      |                                 |
|----------------------|---------------------------------|
| Physical state:      | Liquid                          |
| Density:             | 1.16                            |
| Solubility in water: | Insoluble                       |
| Flashpoint:          | >25°C (Setaflash Closed Tester) |

**SECTION 10: STABILITY AND REACTIVITY**

|                                   |  |
|-----------------------------------|--|
| Stability:                        | This product is stable under normal storage conditions (See section 7).  |
| Hazardous Decomposition Products: | On exposure to high temperature, may decompose, releasing toxic/flammable vapours such as carbon monoxide, nitrogen dioxide and hydrogen cyanide. This product reacts slowly with water liberating Carbon dioxide. |
| Hazardous reactions:              | Contact with amines and alcohols cause uncontrollable exothermic-reactions.  |
| Materials to avoid:               | Oxidiser, strong acids, amines, water.   |

**SECTION 11: TOXICOLOGICAL INFORMATION**

Skin and mucous membrane compatibility, rabbit:  
 Skin 4 hours exposure - slightly irritant.  
 Eyes - non-irritant.  
 (OECD Guidelines for Testing of Chemicals. No. 404 and No. 405)  
 Skin sensitisation according to Magnusson/Kligman (maximising test):  
 In the guinea-pig the product has a sensitising effect.  
 (OECD Guideline for testing of Chemicals No. 406)  
 No pulmonary sensitisation observed in animal tests:  
 No pulmonary sensitisation potential was observed in the guinea-pig model after either intradermal or inhalative induction with polyisocyanate based on hexamethylene diisocyanate.  
 TLV-TWA: Hexamethylene-di-isocyanate :  
 0.034mg/m<sup>3</sup>  
 Acute toxicity LD 50: > 2000 mg/kg (Rat, oral)  
 Over exposure especially during spraying operations without the necessary precautions, entails the risk of concentration-dependent irritating effects on eyes, nose, throat and respiratory tract. Delayed appearance of the complaints and development of hyper-sensitivity (difficult breathing, coughing, asthma) are possible. Hypersensitive persons may suffer from these effects even at low control limit (MAC-value). In case of longer contact with skin, tanning and irritating effects are possible.

**SECTION 12: ECOLOGICAL INFORMATION**

Ecological effects information: Avoid release to the environment. Toxic to fish.  
 LC0 - fish: 1.8 mg/l  
 LC100 - fish: 3.8mg/l

**SECTION 12: ECOLOGICAL INFORMATION Cont.**

Test species: Brachydanio rerio (Zebra barbel). Durathon of test: 96 h. (LC0/LC100 = 2.5 mg/l calculated as geometric mean)  
 EC50 bacteria (mg/l): 10,000 (OECD Guideline for Testing of Chemicals, NO. 209)  
 Biodegradation (%) 2, i.e. not easily degradable.  
 Test method: manometric breathing test.  
 Analytical method: Directive 79/831 EEC.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Disposal: Dispose in a safe manner in accordance with local/ national regulations. Empty containers may be disposed of after neutralising any product remaining on the walls of the container with a mixture of isopropanol, ammonia and water (see Section 6). Afterwards remove warning labels.

**SECTION 14: TRANSPORT INFORMATION**

Shipping name: Paint. UN No: 1263 pg.3372 Class 3.3. ADR/RID: Free.

**SECTION 15: REGULATORY INFORMATION**

Label Information: Xi Irritant.  
 Contains isocyanates.  
 R Phrases: R43 - May cause sensitisation by skin contact.  
 S Phrases: S02 - Keep out of the reach of children.  
 S24 - Avoid contact with skin.  
 S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S37 - Wear suitable gloves.  
 S45 - In case of accident or if you feel unwell, seek medical advice immediately, (show the label when possible).  
 S46 - If swallowed seek medical advice immediately and show this container or label.

Ready to use paints containing isocyanates may have an irritant effect on mucous membranes, especially on breathing organs, and cause hypersensitivity reactions. Inhalation of vapour or spray mist may cause sensitisation. When handling paints containing isocyanates all precautions required for solvent containing paints must be followed. Vapour and spray mist in particular should not be inhaled. Allergics and asthmatics as well as people prone to respiratory ailments should not work with isocyanate containing paints.

**SECTION 16: OTHER INFORMATION**

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